



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "7225/ 8225TL" Aluminum Fixed over Project-Out Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1415, titled "7225/ 8225TL Fixed/ Project-Out Window (Large Missile Impact)", sheets 01 through 04 of 04, dated 04/06/05 with revision "C1" dated 02/28/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 11-1013.10 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



J. Gascon
5/15/13

NOA No. 13-0304.10
Expiration Date: December 01, 2015
Approval Date: May 23, 2013
Page 1

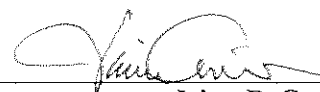
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. 1415, Sheets 1 through 4 of 4, titled "7225/ 8225TL Fixed/ Project-Out Window (Large Missile Impact)", dated 04/06/05 with revision "C1" dated 02/26/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Small Missile Impact Test per FBC, TAS 201-94
 - 5) Large Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Farabaugh Engineering and Testing, Inc., Test Reports No.'s **FET-T248-11** dated 08/08/11 and **FET-T248-11** dated 07/28/11, both signed and sealed by Daniel G. Farabaugh, P. E.
2. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Small Missile Impact Test per FBC, TAS 201-94
 - 5) Large Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-G049-0102-05**, dated 01/12-5/25/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 05-0725.06)
3. Test reports on:
 - 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Small Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-G049-0505-05**, dated 01/12-5/25/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 05-0725.06)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-0304.10
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B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum fixed/ over project-out window, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-G049-0403-05, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P. E.

(Submitted under previous NOA No. 05-0725.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by W. W. Schaefer Engineering & Consulting P. A., dated 09/01/10, signed and sealed by Warren W. Schaefer, P. E.

(Submitted under previous NOA No. 11-1013.10)

2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 13-0129.27 issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. 11-0624.02 issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
3. Notice of Acceptance No. 12-1231.08 issued to **Eastern Chemical Company (MA)** for their "**Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 03/28/13, expiring on 12/11/18.
4. Notice of Acceptance No. 12-1231.09 issued to **Eastern Chemical Company (MA)** for their "**Saflex HP Clear or Color Glass Interlayers**" dated 03/28/13, expiring on 04/14/18.
5. Notice of Acceptance No. 12-1120.04 issued to **Viracon, Inc.** for their "**StormGuard Clear or Color Glass Interlayers**" dated 05/09/13, expiring on 04/14/18.



Jaime D. Gascon, P. E.

Product Control Section Supervisor

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F. STATEMENTS

1. Statement letter of conformance with ANSI/ AAMA/ NWWDA 11/ I.S.2-97 and complying with FBC-2010, issued by W.W. Schaefer Engineering & Consulting P.A., dated 02/26/13, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest and independence, issued by W.W. Schaefer Engineering & Consulting P.A., dated 02/26/13, signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letter for Test Reports No. FET-T248-11 and FET-T248-11, issued by Farabaugh Engineering and Testing, Inc., both dated 08/08/11, signed and sealed by Daniel G. Farabaugh, P. E.
4. Proposal No. 10-0479 issued by Product Control, dated 07/01/10, signed by Manuel Perez, P. E.
(Submitted under previous NOA No. 11-1013.10)
5. Laboratory compliance letter for Test Reports No.'s HTL-G049-0102-05, HTL-G049-0403-05 and HTL-G049-0505-05, issued by Hurricane Test Laboratory, LLC, dated 07/07/05, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 05-0725.06)

G. OTHERS

1. Notice of Acceptance No. 11-1013.10, issued to Kawneer Company, Inc. for their Series "Series 7225/ 8225TL Aluminum Fixed over Project-Out Window - L.M.I., approved on 12/08/11 and expiring on 12/01/15.



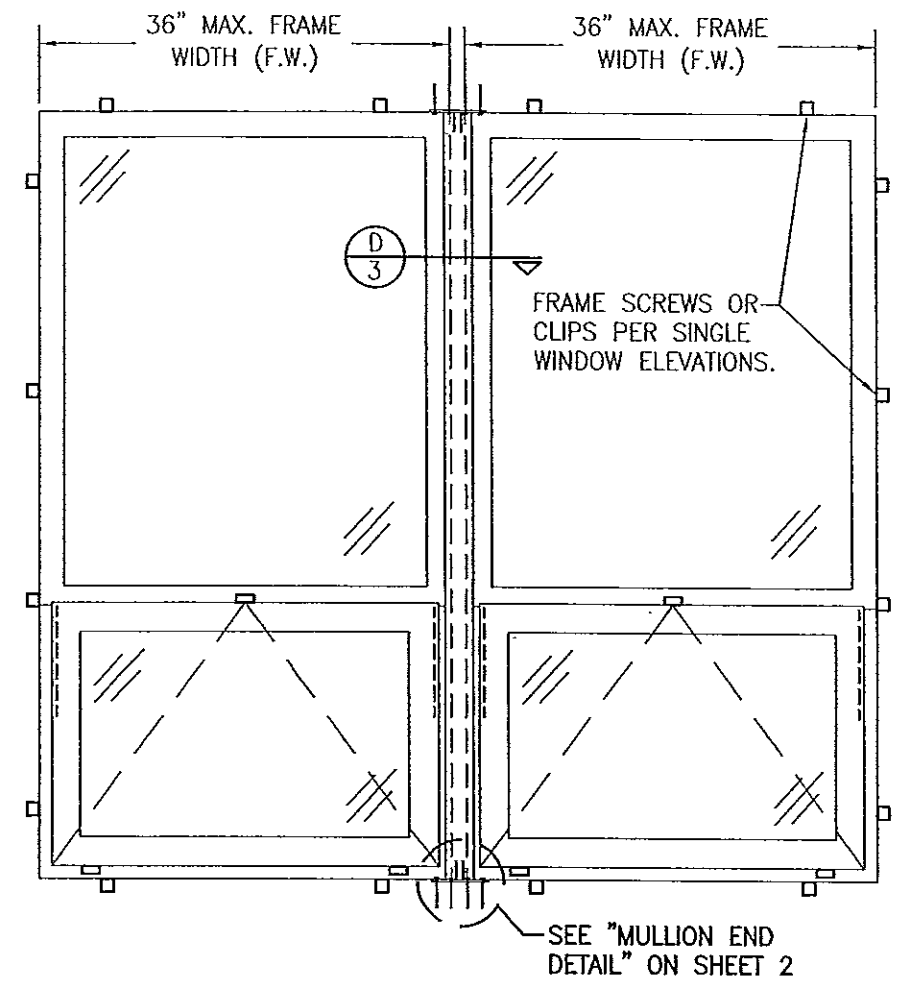
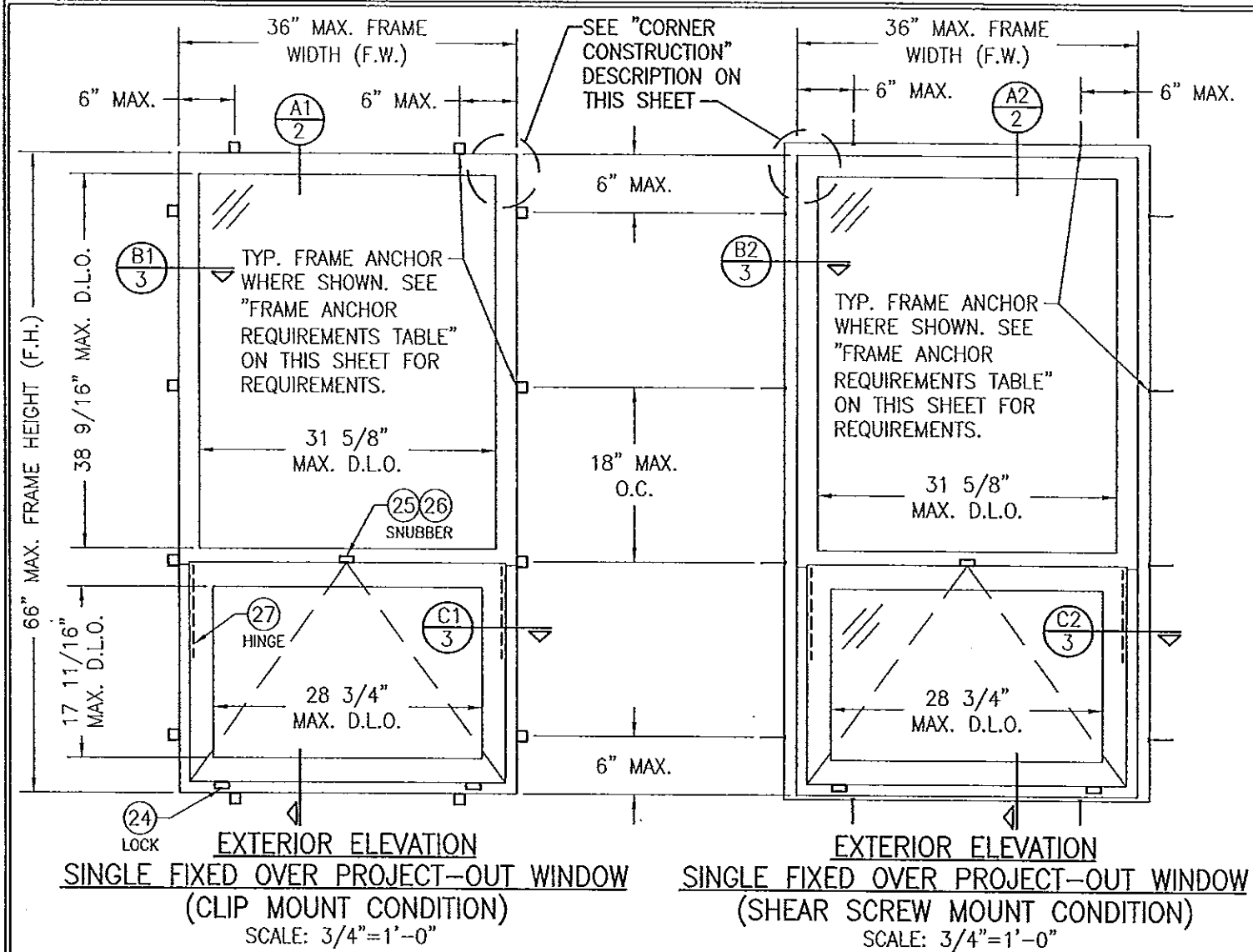
Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 13-0304.10

Expiration Date: December 01, 2015

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GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $KD = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $CD = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

ALLOWABLE DESIGN PRESSURE
+/-90 PSF
LARGE MISSILE IMPACT RATED

FRAME ANCHOR REQUIREMENTS TABLE			
CLIP & FRAME SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).

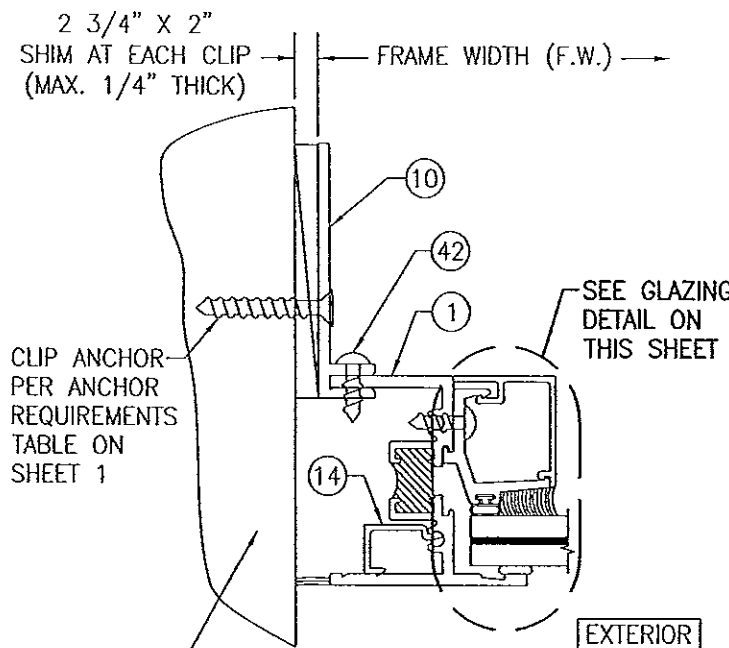
CORNER CONSTRUCTION

- JAMB CORNERS:**
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.
- SASH CORNERS:**
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

PRODUCT REVISED
as complying with the Florida
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Expiration Date 12/10/2015
by [Signature]
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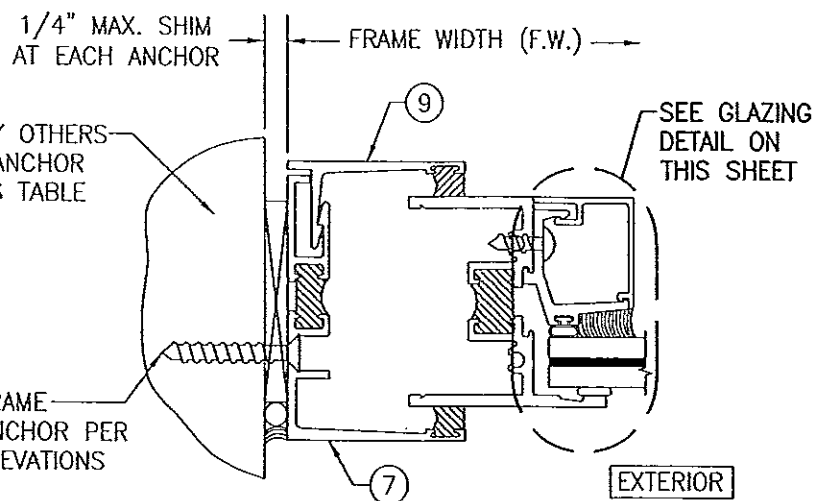
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 04/06/05	
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO CURRENT STANDARDS	W.W.S.	09/01/10
B1	UPDATE CONSULTANTS ADDRESS	W.R.M.	11/03/11
C1	ADD GLAZING COMPOUNDS	W.R.M.	02/26/13
DRAWING TITLE 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)			
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION MAY 09 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1415		REV. C	
SHEET NO. 1 OF 4			

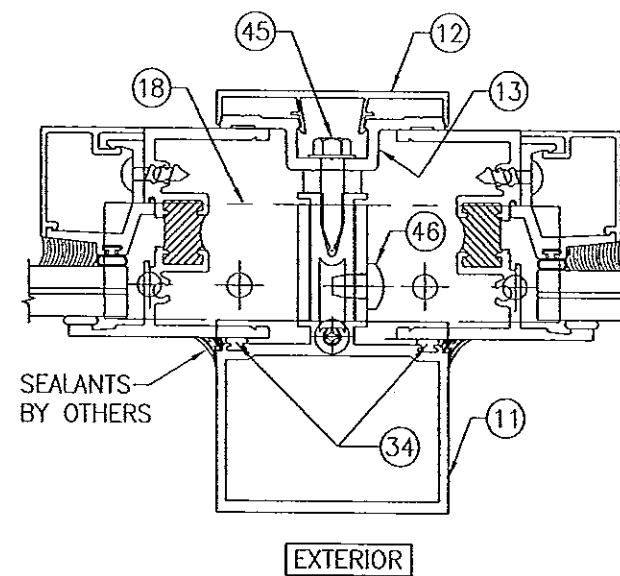


SECTION B1
SCALE: 1/2 FULL 3

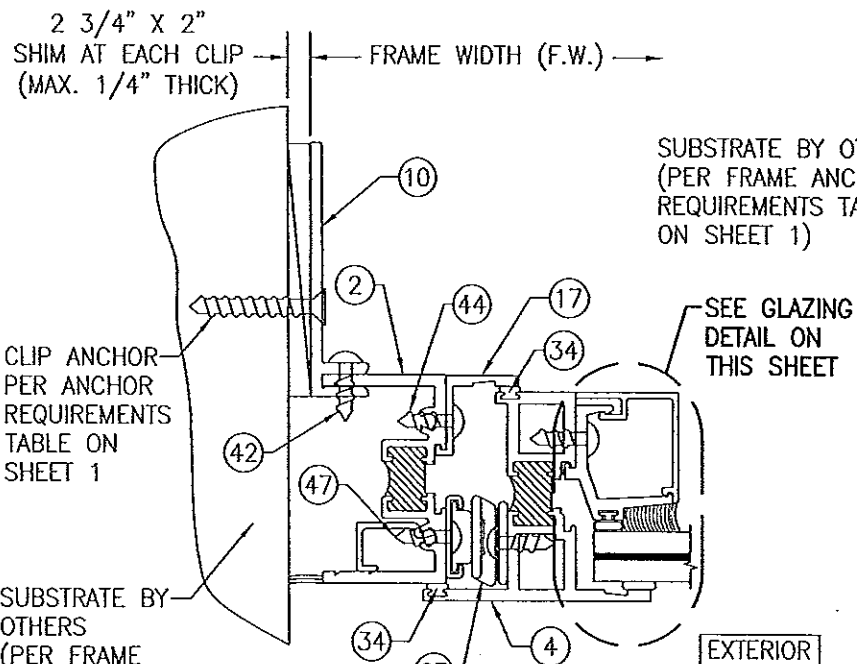
SUBSTRATE BY
OTHERS
(PER FRAME
ANCHOR
REQUIREMENTS
TABLE ON
SHEET 1)



SECTION B2
SCALE: 1/2 FULL 3
FOR DETAIL NOT SHOWN, SEE SECTION B1/3

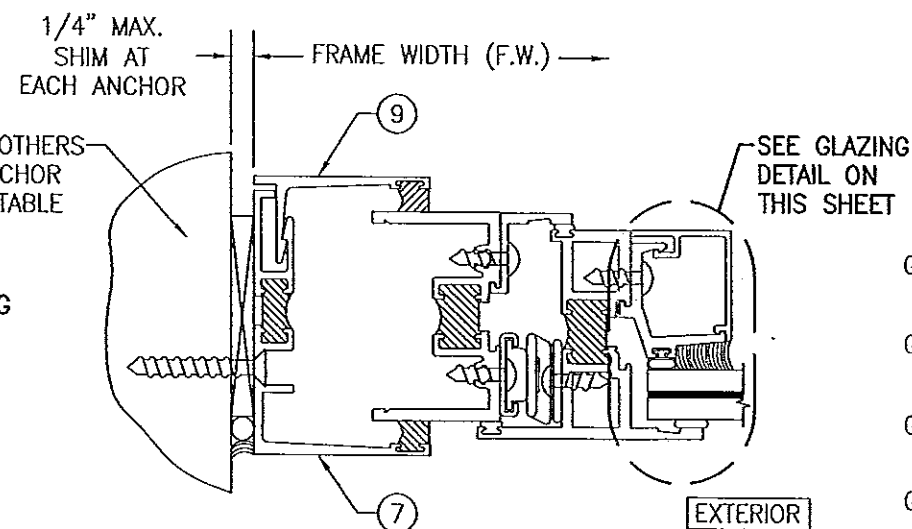


SECTION D
SCALE: 1/2 FULL 3
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

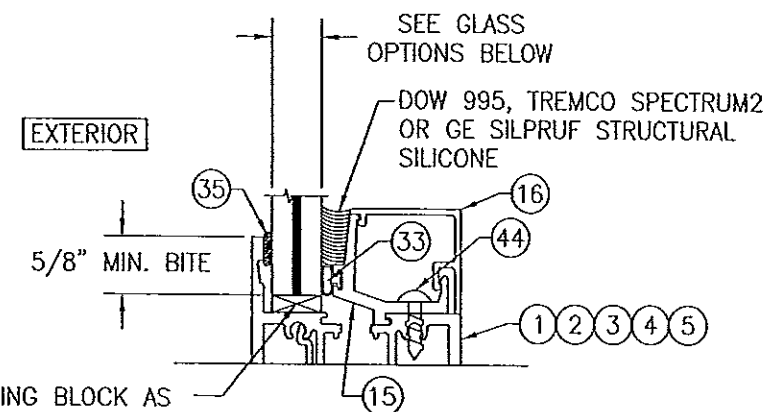


SECTION C1
SCALE: 1/2 FULL 3

SUBSTRATE BY
OTHERS
(PER FRAME
ANCHOR
REQUIREMENTS
TABLE ON
SHEET 1)



SECTION C2
SCALE: 1/2 FULL 3
FOR DETAIL NOT SHOWN, SEE SECTION C1/3



SETTING BLOCK AS
REQUIRED

GLAZING DETAIL
SCALE: 1/2 FULL

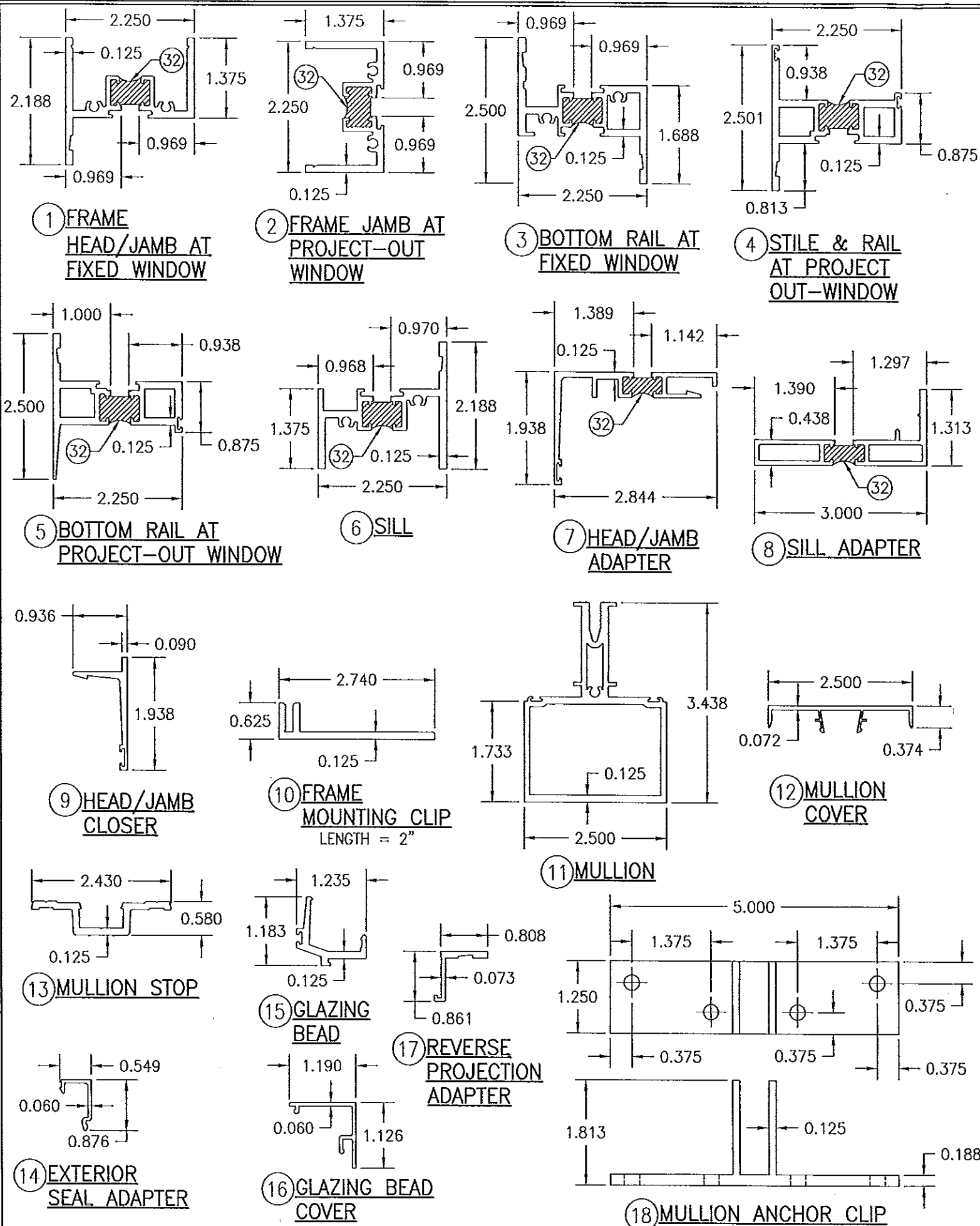
- GLASS OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.100 SOLUTIA SAFLEX HP/1/4" H.S.)
- GLASS OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.070 SOLUTIA SAFLEX CP/1/4" H.S.)
- GLASS OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.090 DUPONT SG/1/4" H.S.)
- GLASS OPTION 4: 9/16" THICK SOLUTIA SAFLEX LAMINATED GLASS (1/4" H.S./0.090 SOLUTIA SAFLEX/1/4" H.S.)
- GLASS OPTION 5: 9/16" THICK LAMINATED GLASS (1/4" H.S./0.090 DUPONT BUTACITE PVB/1/4" H.S.)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0304.10
Expiration Date 12/01/2015
By: [Signature]
Miami Dade Product Control

DRAWN BY:	K.P.S.	CHECKED BY:	W.W.S.
PLOT:	1-2	DATE:	04/06/05
NO.		REVISION	DESCRIPTION
DATE		BY	

DRAWING TITLE	7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)
CONSULTANTS	KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
MANUFACTURER	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424

CERTIFICATION	MAY 09 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO.	1415	REV.	C
SHEET NO.	3	OF	4



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	228-034/228-134	FRAME HEAD/JAMB AT FIXED WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
2	228-034/228-134	FRAME JAMB AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
3	225-251/225-351	BOTTOM RAIL AT FIXED WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
4	225-225/225-325	STILE & RAIL AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
5	225-220/225-320	BOTTOM RAIL AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
6	225-013/225-113	SILL	6063-T6 ALUMINUM (SEE NOTE 1)
7	224-054/224-154	HEAD/JAMB ADAPTER	6063-T6 ALUMINUM (SEE NOTE 1)
8	224-055/224-155	SILL ADAPTER	6063-T6 ALUMINUM (SEE NOTE 1)
9	325-059	HEAD/JAMB CLOSER	6063-T6 ALUMINUM
10	225-165	FRAME MOUNTING CLIP	6063-T6 ALUMINUM
11	224-071	MULLION	6063-T6 ALUMINUM
12	224-074	MULLION COVER	6063-T6 ALUMINUM
13	224-073	MULLION STOP	6063-T6 ALUMINUM
14	228-281	EXTERIOR SEAL ADAPTER	6063-T6 ALUMINUM
15	224-080	GLAZING BEAD	6063-T6 ALUMINUM
16	224-081	GLAZING BEAD COVER	6063-T6 ALUMINUM
17	225-079	REVERSE PROJECTION ADAPTER	6063-T6 ALUMINUM
18	225-548	MULLION ANCHOR CLIP	6063-T6 ALUMINUM
HARDWARE			
24	225-405	PROJECT-OUT CAM LOCK	WHITE BRONZE US-25D (2 PER WINDOW)
25	229-156	FRAME SNUBBER (1 PER WINDOW)	WHITE ETPU; SECURED WITH 2 NO. 10 X 7/16" S.S. PH SCREWS
26	229-154	VENT SNUBBER (1 PER WINDOW)	304 SERIES SS; SECURED WITH 2 NO. 10 X 7/16" S.S. PH SCREWS
27	229-101	ADVANTAGE 4-BAR HINGE	300 SERIES SS
28	225-936	WEEP CHECK VALVE	VERNAY LABRATORIES VA-4394 1 AT MID-SPAN OF SASH
SEALS AND SEALANTS			
32	-	DEBRIDGING/THERMAL BREAK (OPTIONAL)	2-PART POLYURETHANE
33	127-074	BULB GASKET	VISTAPLEX/POLYPROPYLENE
34	027-874	VENT WEATHERSTRIP	VISTAPLEX/POLYPROPYLENE
35	127-104	SILICONE	DOW CORNING INSTANT GLAZE, NOVAGARD SBC40-M170 OR MOMENTIVE RGS 7700
36	027-883	WEATHERSTRIP	SANTOPRENE
37	127-038	BACK-UP WEDGE	SCR-900
MISC. FASTENERS			
42	977-108	#10 X 3/4" SELF TAPPING PH SCREW	1 PER FRAME MOUNTING CLIP
43	128-415	#10 X 1/2" FHTF SCREW	2 PER CAM
44	128-414	#10 X 7/16" PHTF SCREW	2" FROM ENDS
45	128-406	1/4" X 1" HHTF SCREW	3" FROM ENDS & 9" O.C.
46	128-192	1/4" X 3/8" PHTF SCREW	1 PER MULLION ANCHOR CLIP
47	128-414	#10 X 7/16" PHTF SCREW	6 PER HINGE

(1) PARTS 1 THROUGH 8 MAY BE THERMALLY BROKEN AS SHOWN OR BE ONE WHOLE UNMOUNTED EXTRUSION (EXTRUSIONS ARE CUT TO ALLOW FOR THERMAL BREAK PLACEMENT).

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as complying with the Florida
Building Code
Acceptance No. 13-0304.10
Expiration Date 12/01/2015
By *[Signature]*
Miami Dade Product Control

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/06/05	
DATE	BY	REVISION	DESCRIPTION
NO.	NO.	NO.	NO.
DRAWING TITLE: 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
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DRAWING NO. 1415		REV. C	
SHEET NO. 4		OF 4	